## WARRANTY & REPAIR POLICY

Your **SENSIT®TKX** instrument is warranted to be free from defects in materials and workmanship for a period of one year after purchase (excluding sensor and batteries). If within the warranty period your instrument should become inoperative from such defects, the unit will be repaired or replaced at our option. This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect, or improper maintenance. A purchase receipt or other proof of date of original purchase may be required before warranty performance will be rendered.
Instruments out of warranty will be repaired for a service charge. Return the unit postpaid and insured to:

**J And N Enterprises, Inc.**
ATTN: Service Dept.
851 Transport Drive
Valparaiso, IN 46383

www.gasleaksensors.com

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



6/05 UL V2

# SENSIT®TKX

*Combustible Gas Leak Detector*

## INSTRUCTION MANUAL

Read and understand instructions before use.

CLASSIFIED UL 7WA6

Approved UL913, For Class 1, Division 1, Groups C & D hazardous locations when used with alkaline batteries.

> ⚠ ***Warning:*** *To prevent ignition of flammable or combustible atmospheres, disconnect power before servicing.*


For more information contact:
**J And N Enterprises, Inc.**
**851 Transport Drive**
**Valparaiso, IN 46383**
**(888) 4-SENSIT**
**(473-6748)**
**Phone: (219) 465-2700**
**Fax: (219) 465-2701**
**www.gasleaksensors.com**

## CONTENTS



### ⚠CAUTION

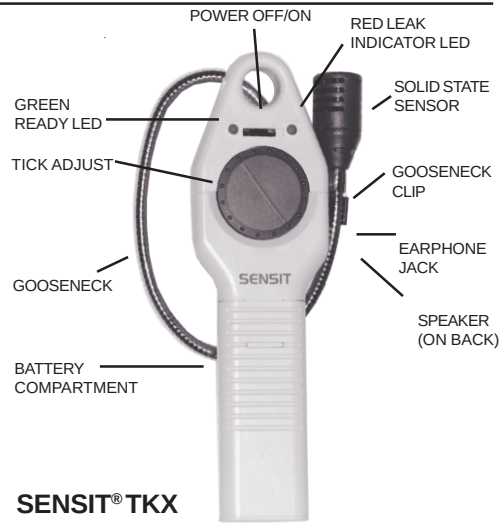
This safety symbol is used to indicate a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

## SPECIFICATIONS

| | |
|---|---|
| Power Supply: | 3 “C” Alkaline Batteries |
| Sensor: | Solid State |
| Sensitivity: | 50 ppm Methane |
| Warm up: | Approx. 1 Minute |
| Response Time: | Instantaneous |
| Duty Cycle: | Continuous |
| Battery Life: | Approx. 30 Hours |
| Size: | 3.5” x 10” x 1.6” (89 x 254 x 40 mm) |
| Weight: | 1.3 lbs. (591 g) |
| Probe Length: | 16” |
| Approvals: | UL913 Intrinsically Safe |



## PRODUCT FEATURES




**SENSIT® TKX**

## ACCESSORIES and PARTS

**STANDARD ACCESSORIES** (INCLUDED)

| | |
|---|---|
| Carrying Pouch | AHTR70100 |
| Earphone | P014091 |
| Instruction Manual | ISTKX0100 |
| Alkaline Batteries | |

**OPTIONAL ACCESSORIES/PARTS**

| | |
|---|---|
| Carrying Case | PHXG0260 |
| Wrist Strap | PHXG0350 |
| Sensor | P017005 |

## GENERAL DESCRIPTION

The **SENSIT®TKX** instrument is an advanced state-of-the-art leak detector capable of detecting many combustible, non-combustible and toxic gases.

The **SENSIT®TKX** solid state sensor is sensitive to most combustible and/or toxic gases.
A partial list of these gases is:
Acetone, Alcohol, Ammonia, Steam, Butane, Gasoline, Jet Fuel, Hydrogen Sulfide, smoke, Industrial Solvents, Methane, Lacquer Thinner, Naphtha, Propane, Natural Gas.

### ⚠ CAUTION

**This instrument is not to be used as a carbon monoxide investigative tool or to quantify any gas concentration.**

## SAFETY APPROVAL

**SENSIT®TKX** is approved by Underwriters Laboratories to UL913, for Class I, Division 1, Groups C & D hazardous locations when used with *Duracell*™ MN1400K or equivalent alkaline batteries.



## OPERATIONS

1. Turn the unit on in an uncontaminated environment by moving the switch from the "OFF" to the "ON" position.

2. The green ready LED will illuminate if there is ample battery power. The red LED may flicker and the tick may sound during the warm up. To silence the tick, rotate the tick wheel fully counterclockwise.

3. Adjust the "TICK ADJUST" by rotating it in a clockwise direction until a uniform tick begins to sound. A uniform tick rate indicates a fully warmed up instrument. The red LED will flash at the same time the tick sounds.

4. Approach suspected leak areas with the sensor until the tick begins to increase. When the tick increases do not move the sensor from the suspected leak area, rotate the tick adjust slightly counterclockwise to slow the ticking sound and continue to approach the leak. Continue to use this method to pinpoint the leak.

REMEMBER: An increase in tick indicates you are approaching a leak, a decrease in tick indicates you are moving away.



(Operations continued on page 5)

5. When this instrument is used in noisy environments, look at the red leak indicator LED that flashes more rapidly as the tick rate increases. You can also use the supplied earphone.

6. If the green LED does not illuminate or blinks, the batteries must be replaced.

7. If the instrument does not perform or it has been damaged, test the instrument by following the “operation check” procedure in this manual.

## BATTERY REPLACEMENT

If the green LED fails to illuminate, the batteries need replacement. Depress the latch using a coin and slide the battery compartment cover off. Replace the batteries with 3 “C” alkaline batteries.

When replacing the batteries observe the polarity markings on the sides of the battery compartment. A fresh set of alkaline batteries should operate the unit for approximately 30 hours.



## OPERATION CHECK

First follow steps 1, 2 and 3 (page 4) in the Operations section. Then expose the sensor to a known gas source such as an unlit butane lighter. The tick should increase when the gas is applied. The tick will decrease when the gas is removed.

If the unit fails to respond, the sensor may need replacing or the unit may need to be sent in for repair (see below).

⚠ **CAUTION:** This instrument must be only repaired by a factory authorized repair technician.

## SENSOR REPLACEMENT

1. Turn the unit off
2. Pull off the sensor cap
3. Unplug the old sensor and discard
4. Line up reference tab on side of sensor with reference mark ( ⊓ ) on sensor circuit board and plug in sensor
5. Replace sensor cap
6. Turn on unit and perform “Operation Check”